

HEPATIC CELL SPHEROID AND ITS PREPARATION

Patent Number: JP5260957
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 Inventor(s): YOSHINO TOMOKO; others: 05
 Applicant(s): KAO CORP; others: 01
 Requested Patent: ☐
 Application Number: JP19920009110 19920122
 Priority Number(s):
 IPC Classification: C12N5/00
 EC Classification:
 Equivalents:

Abstract

PURPOSE: To readily peel and recover spheroidal hepatic cells from a cell culture support in a high yield without damaging the cells and without being mixed or contaminated with the third component such as a chemical by culturing the hepatic cells in the spheroidal state and subsequently peeling and recovering the hepatic cells cultured in the spheroid state only by changing the circumferential temperature.

CONSTITUTION: Hepatic cells are cultured at \leq an upper limit critical dissolution temperature or at \geq a lower limit critical dissolution temperature on a cell culture support produced by coating a polymer having the critical dissolution temperature of 0-80 deg.C in water on the surface of a substrate, and subsequently subjected to \geq the upper limit critical dissolution temperature or \leq the lower limit critical dissolution temperature.

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(54) 【発明の名称】 肝細胞スフェロイド及びその調製法

(57) 【要約】

【目的】 スフェロイド状で培養され、そのスフェロイド状に培養された肝細胞は周囲温度を変化させるだけで剥離回収され、その結果高収率で細胞を傷つけることなく且つ薬品等の第3成分の混入若しくは汚染無しに容易に細胞培養支持体から肝細胞スフェロイドを剥離回収する。

【構成】 水に対する臨界溶解温度が0~80℃であるポリマーを基材表面上に被覆してなる細胞培養支持体上にて、肝細胞を上限臨界溶解温度以下又は下限臨界溶解温度以上で培養し、その後上限臨界溶解温度以上又は下限臨界溶解温度以下にすることを特徴とする。